Course on Functional Neurovascular Anatomy
World Federation of Interventional and Therapeutic Neuroradiology
Chicago, May 23-27, 2022

Faculty:
Sameer Ansari, Chicago, USA- local organizer
Götz Benndorf, Copenhagen, Denmark
Serge Bracard, Nancy, France
Michele Johnson, New Haven, USA
Masaki Komiyama, Kyoto, Japan
Seon-Kyu Lee, New York, USA
Philippe Mercier, Angers, France
Georges Rodesch, Paris, France
Maksim Shapiro, New York, USA
Michael Söderman, Stockholm, Sweden – course director
Michihiro Tanaka, Tokyo, Japan

Monday May 23rd

08.00-08.30 Welcome and Introduction, Presentation of students and speakers
S. Ansari / M. Soderman

08.30-09.15 Functional vascular anatomy of the musculocutaneous arteries of the head *S. Ansari*

9.15-10.00 Cranio-cervical junction and pharyngo-occipital system . *SK Lee*

10.00-10.30 Coffee break

10.30-11.00 Surgical 3D vascular anatomy of the cranio-cervical junction *Ph.Mercier*

11.00-11.45 Cranial nerve arterial supply . *M. Tanaka*

11.45-12.30 Embryology and Anatomy of the Internal Carotid Artery including circle of Willis *M.Komiyama*

12.30-13.30 Lunch

Tuesday May 24th

08.00-08.45 Vascular functional anatomy of the nasal fossa and maxillary area *M. Johnson*

08.45-09.30 Cavernous sinus - arterial aspects *G.Benndorf*

09.30-10.00 Surgical 3D Anatomy of the cavernous sinus *Ph. Mercier*

10.00-10.30 Coffee break

10.30-11.00 Ophthalmic artery: embryology, anatomy, arterial variations *M. Komiyama*

11.00-11.45 Surgical 3D anatomy of the orbit *Ph. Mercier*

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11.45-12.30 Basilar Tip variations and perforating arteries *M. Komiyama*

12.30-13.30 Lunch

Wednesday May 25th

08.00-08.45 Brain stem arterial vascularization *S.Bracard*

08.45-09.30 Arterial vascularization of the cerebellum *G. Rodesch*

09.30-10.00 Surgical 3D anatomy of the basilar artery and perforators *Ph.Mercier*

10.00-10.30 Coffee Break

10.30-11.15 Functional anatomy of the intracranial venous system *S.Bracard*

11.15-11.45 The cavernous sinus - venous aspects *G.Benndorf*

11.45-12.30 Veins of the posterior fossa *M.Shapiro*

12.30-13.30 Lunch

Thursday May 26th

08.00-08.45 Surgical 3D vascular anatomy of the cerebral venous system *Ph.Mercier*

8.45-9.30 Anterior Choroidal Artery and Posterior Cerebral Artery: Embryology, anatomy, arterial variations *M. Tanaka*

9.30-10.15 MCA, ACA, Artery of Heubner *SK Lee*

10.15-10.45 Coffee Break

10.45-11.00 The sub callosal artery *M.Soderman*

11.00-11.30 Surgical 3D vascular anatomy of the perforators (ACA, MCA, Heubner…) *Ph.Mercier*

11.30-12.00 Cerebral arterial territories: from pipes to genes *G.Rodesch*

12.00-12.30 Collateral vessels to the brain: from duro-pial to pio-pial *M. Soderman*

12.30-13.30 Lunch

Friday May 27th

8.00-8.30 The notochord: key to further somatic dispositions *G.Rodesch*

8.30-9.15 Arterial anatomy of the spine and spinal cord *M. Tanaka*

9.15-9.45 Venous anatomy of the spine and spinal cord *M. Shapiro*

9.45-10.15 The G lymphatic system *S.Bracard*

10.15-10.45 Coffee break

10.45-11.15 An anaglyph journey through the cerebral venous system *M. Shapiro*

11.15-12.30 Two workshops on the spine and spinal cord vascular anatomy

12.30-13.30 Lunch

13.30-15.00 Test

15.00-15.30 Course evaluation - End of course

Topics for workshops

There will be 15 workshops for Monday-Thursday and two workshops Friday
The five groups of 12 students will circulate so there will be three sets of five workshops for Monday-Thursday and 10 spinal cord workshops Friday (each group will attend two workshops).

Workshops Monday-Thursday:
13.30-14.15
14.15-15.00
15.00-15.45
15.45-16.30

Set 1
The craniocervical junction
ECA-ICA Anastomoses
Cranial nerve supply
ICA-cavernous sinus arterial aspects
Vascularization of the inner ear

Set 2
The orbit
Arterial Perforators
Basilar artery variations
MCA variations - Heubner's artery
PCA and AChorA variations

Set 3
Arterial supply to the maxillary-facial region
Posterior fossa venous system
Deep venous system
Cortical venous system
Cavernous sinus venous aspects

Friday: Workshops covering the spine and spinal cord